Work Element 400

September 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to define, develop, implement and evolve/enhance the requirements defined by NSSDC government staff relating to data storage, access and performance.

SIGNIFICANT EVENTS:

- Continued to support the operations staff with data ingest and archiving as needed.

- Maintained the DIOnAS software suite and continued coding on enhancements to it.

- Continued planning of the system and processes to migrate NSSDC data to next generation of media.

- Coordinated with operations group for design and development of enhancements to DIOnAS; coordinate software testing in an operational environment.

- Continued to interface with the Database Administrator about operational databases and next generation database designs.

- Continued to interface with NOST and coordinate the development of the next functional version of the NOST-supplied core software for DIOnAS.

- Provided representation to the NSSDC Configuration Control Board.

Work Element 410

September 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to perform all the necessary, non-personal services required to manage contractor and sub-contractor staff supporting the Operations portion of the Space Science Data Operations Office (SSDOO). The contractor management team will meet with the NSSDC and SSDOO management staff to discuss significant events, updates, issues and concerns from the Operations Group. The Metrics Tracking System will be maintained current.

SIGNIFICANT EVENTS:

- Held Operations management staff meetings as needed.

- Held meetings with Operations staff as needed.

- Attended Government/Contractor meetings as scheduled.

- Provided representation to the NSSDC Configuration Control Board.

- Reported monthly PBC Metrics for August '02.

Work Element 421

September 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ingest data into the NSSDC on-line, nearline and offline data archives.

SIGNIFICANT EVENTS:

- Continued to ingest IMAGE data, received 6 deliveries with a total of 262files. All were ingested in a timely manner.

- Continued to ingest ISIS –1 data, received 18 deliveries with a total of 15419 files. All were ingested in a timely manner.

- Continued to receive and archive data on physical media, a total of 117 GB on 250 from the Advanced Composition Experiment, Cluster 2, FAST, Geotail, NEAR Shoemaker, Polar, Ulysses, and Wind missions.

- Continued to advise the software development team with operational insights for design and development of enhancements to DIOnAS; continued to support software testing in an operational environment.

- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.

- Continued data processing and ingest for the remaining data from NDADS, including Wind, Ulysses, ISIS, Pioneer and Voyager.

Work Element 422

September 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ensure that the data bundles entrusted to NSSDC are reliably findable, retrievable and usable into the indefinite future.

SIGNIFICANT EVENTS:

- Environmental monitors were checked each workday. The values recorded were out of compliance on 14 days. The PBC Work Element Manager was duly notified in a timely manner.

- Security was maintained and security procedures followed for the archive storage areas; there were no breaches.

- Continued to advise the software development team with operational insights for design and development of enhancements of JIN; continued to support software.

- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.

Work Element 423

September 2002

Request Coordination and Services

PBC Work Element Manager – David Han

OBJECTIVE: to provide user support and request activities coordination for all data center services.

SIGNIFICANT EVENTS:

- The following user support was provided: e-mail referrals - 5; telephone - 28; scientific assistance - 2; e-mail support - 45; data services - 37; special projects - 16.

- A total of 9.615 shipments were made including 2 Federal Express shipments.

- We completed 9,567 requests for 9,544 Milky Way posters and 10 requests for 19 COBE posters.

- The first work day of September there were 10,428 un-read mail messages in the posters account and on the last day of the month there were 106 (15,507 email messages were extracted on September 28th.) There was a total of 5,186 new messages received in September.

- There were 80 MW posters and 21 COBE posters returned in September. The posters are returned for various reasons, mostly due to the recipient moving and not leaving a forwarding address.

- We received two hardcopy survey cards. Both were rated "excellent".

- The newsletter announcement was sent out. Had numerous returned messages. Forwarded those to Pat Ross.

- Staff members continue to inventory all of the NSSDC photo archive data for the eventual creation of an Oracle database of all analog data.

Work Element 430

September 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to provide comprehensive information functionality related to availability of data, to all launched spacecraft and to many spaceborne experiments.

SIGNIFICANT EVENTS:

- Maintained and updated the NSSDC Master Catalog.

- Maintained and updated JRAND.

- Maintained and updated JEDS and IDA.

- Maintained AIM and TRF and made 30 updates to them.

- No problem reports about the databases were received this period.

- No FILEX report was required this period.

- No SATX report was required this period.

- Prepared and issued SPACEWARN report in a timely manner.

Work Element 440

September 2002

Computing Systems Operations

PBC Work Element Manager – David Han

OBJECTIVE: to provide systems analysis and technical support to the operational computer activities of the NSSDC.

SIGNIFICANT EVENTS:

- Continued to maintain existing hardware (servers, Macs, PCs and peripherals) and system-level software – VMS, unix, Mac-OS, Windows, and other operational packages -- to ensure the optimal performance and connectivity. The average availability of systems for September 2002 was 99.96%.

- Continued to integrate new hardware and system-level software into existing systems to achieve upgraded capabilities and state-of-the-art facilities.

- Maintained security of the systems to minimize security breaches. No security breaches were detected in this reporting period.

- Continued to administer specialized software such as data base and disk management systems.

- Continued to provide users with the necessary documentation, training, and assistance so that resources are fully utilized.